

10127



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

SWA6A-3-OH
Job Sheet OH193316



Part No: SWA6A-3-OH

Job Qty: 1 pcs

Part Name: Electric Swivel 6,000 lb Safe Work Load (2,721 kg)



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 4/10/19

Job Tracking No: RA657

Due Date: 5/22/19

Created By: Shannon Hadley

Type: Rework - OH

Description: RA657/ Order 15061 / SN - M16606

Note: O&OPM-SWA6 REV.2 & SWA6A Rev E IPP REV:A 18.04.09 NEW ISSUE DP VERF:DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier	Sign-off
					Setup Hrs	Run Hrs		
110	External Load - 1	1 pcs	5/22/19	5/22/19	0.00	1.00	External Load - 1	
							External Load - 2	
							External Load - 3	
120	QC 5	1 pcs	5/22/19	5/22/19	0.00	0.00	QC 5 - 10	 DAS 19 9-89
							QC 5 - 12	
							QC 5 - 17	
							QC 5 - 18	
							QC 5 - 19	
							QC 5 - 22	
							QC 5 - 24	
							QC 5 - 3	
							QC 5 - 43	
							QC 5 - 49	
							QC 5 - 51	
							QC 5 - 58	
							QC 5 - 68	
							QC 5 - 9	
							QC 5 - 50	
							QC 5 - 30	
							QC 5 - 40	
130	Customer Acceptance	1 pcs	5/22/19	5/22/19	0.00	0.00	SKY002-VC	 DAS 13 9-89 APR 15 2019 P0043188 MAY 01 2019
140	Outsource - 24 - Test / OH	1 pcs	5/22/19	5/22/19			Packaging 2 - 1 - B4B	
150	Packaging 2-1 - Receive - B4B	1 pcs	5/22/19	5/22/19	0.00	0.00	Packaging 2 - 2 - B4B	
							Packaging 2 - 3 - B4B	
							Packaging 2 - 5 - B4B	
							Packaging 2 - 4 - B4B	
							Packaging 2 - 6 - B4B	
							Packaging 2 - 7 - B4B	
							Packaging 2 - 8 - B4B	

Date: 05/01/19



Dart Aerospace Ltd.
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CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S171344



Part: SWA6A-3

Job No: OH193316

Serial No/Batch: M16606

Revision: 2

Inspector:

Exp Date:

Instructions:

1=6PCS

				Packaging 2 - 9 - B4B	
				Packaging 2 - 10 - B4B	
				Packaging 2 - 11 - B4B	
				Packaging 2 - 12 - B4B	
				Packaging 2 - 13 - B4B	
				Packaging 2 - 14 - B4B	
				Packaging 2 - 15 - B4B	
				Packaging 2 - 16 - B4B	
				Packaging 2 - 17 - B4B	
				Packaging 2 - 18 - B4B	
				Packaging 2 - 19 - B4B	
				Packaging 2 - 20 - B4B	
				Packaging 2 - 21 - B4B	
				Packaging 2 - 22 - B4B	
				Packaging 2 - 23 - B4B	
				Packaging 2 - 24 - B4B	
				Packaging 2 - 25 - B4B	
				Packaging 2 - 26 - B4B	
				Packaging 2 - 27 - B4B	
				Packaging 2 - 28 - B4B	
				Packaging 2 - 29 - B4B	
				Packaging 2 - 30 - B4B	
				Packaging 2 - 31 - B4B	
				Packaging 2 - 32 - B4B	
				Packaging 2 - 33 - B4B	
				Packaging 2 - 34 - B4B	
				Packaging 2 - 35 - B4B	
				Packaging 2 - 36 - B4B	
160	QC 6	1 pcs	5/22/19	0.00 0.00	QC 6 - 9
					QC 6 - 68
					QC 6 - 61
170	External Load - 2 - B4B	1 pcs	5/22/19	0.00 1.00	External Load - 1 - B4B
					External Load - 2 - B4B
					External Load - 3 - B4B
180	QC 5	1 pcs	5/22/19	0.00 0.00	QC 5 - 10
					QC 5 - 12
					QC 5 - 17
					QC 5 - 18
					QC 5 - 19
					QC 5 - 22
					QC 5 - 24
					QC 5 - 3
					QC 5 - 43
					QC 5 - 49
					QC 5 - 51
					QC 5 - 58
					QC 5 - 68
					QC 5 - 9
					QC 5 - 50
					QC 5 - 30
					QC 5 - 40
185	DC - 1 - B4B	1 pcs	5/22/19	0.00 0.00	DC - 1 - B4B
					DC - 2 - B4B
190	Packaging 3-1 - Stock - B4B	1 pcs	5/22/19	0.00 0.00	Packaging 3 - 1 - B4B
					Packaging 3 - 2 - B4B
					Packaging 3 - 3 - B4B
					Packaging 3 - 4 - B4B
					Packaging 3 - 5 - B4B
					Packaging 3 - 6 - B4B
					Plex 4/10/19 1:11 PM Dart.Hadley.Shannon

					Packaging 3 - 7 - B4B		
					Packaging 3 - 8 - B4B	DAS	
					Packaging 3 - 9 - B4B	30	
					Packaging 3 - 10 - B4B	9-89	JUN 03 2019
					Packaging 3 - 11 - B4B		
					Packaging 3 - 12 - B4B		
					Packaging 3 - 13 - B4B		
					Packaging 3 - 14 - B4B		
					Packaging 3 - 15 - B4B		
					Packaging 3 - 16 - B4B		
					Packaging 3 - 17 - B4B		
					Packaging 3 - 18 - B4B		
					Packaging 3 - 19 - B4B		
					Packaging 3 - 20 - B4B		
					Packaging 3 - 21 - B4B		
					Packaging 3 - 22 - B4B		
					Packaging 3 - 23 - B4B		
					Packaging 3 - 24 - B4B		
					Packaging 3 - 25 - B4B		
					Packaging 3 - 26 - B4B		
					Packaging 3 - 27 - B4B		
					Packaging 3 - 28 - B4B		
					Packaging 3 - 29 - B4B		
					Packaging 3 - 30 - B4B		
					Packaging 3 - 31 - B4B		
					Packaging 3 - 32 - B4B		
					Packaging 3 - 33 - B4B		
					Packaging 3 - 34 - B4B		
					Packaging 3 - 35 - B4B		
					Packaging 3 - 36 - B4B		
200 QC 21 - FG	1 pcs	5/22/19	0.00 0.00	QC 21 - FG - 21			
				QC 21 - FG - 70	DAS		
				QC 21 - FG - 53	21		JUN 03 2019

Part Op 110 - RA: _____ TEST ASSEMBLY. DISASSEMBLE ASSEMBLY. INSPECT DAMAGE PART.
 Descriptions: 120 - (QC5- Inspect part completeness to step on W/O)
 150 - (Receive & Inspect for Damage & Mat'l Certs)
 160 - (QC6- All purchased or subcontracted products)
 170 - RE-ASSEMBLE. ***All assembly to be done in accordance with manual*** TEST ASSEMBLY.
 180 - (QC5- Inspect part completeness to step on W/O)
 185 - Photocopy blue file O&OPM-SWA6A Rev.2
 190 - (Identify as per dwg & Stock Location: _____)
 200 - (QC21- Final Inspection - Work Order Release)

Lactite 242 (M138933)
 Sab-T-eze (M128063) (M138973)
 Aeroshell grease NO.7 (5138964)
 Silicone gr (M139008)

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
SWA6A-3-AR	Electric Swivel 6,000 lb Safe Work Load (2,721 Kg)	1 pcs (1 ea)	110-External Load - 1	5169996
188-FPSS-1032-1/2	Set Screw	1 Ea (1 ea)	170-External Load - 2 - B4B	5037670
188-FSCS-1032-5/8	Flat socket cap Screw	4 Ea (4 ea)	170-External Load - 2 - B4B	5179122
C45-15-13	Bushing for SWA6A	1 Ea (1 ea)	170-External Load - 2 - B4B	5089116
EL-PLUG-F	3-Prong Female Spade Plug	1 Ea (1 ea)	170-External Load - 2 - B4B	
EL-PLUG-M	3-Prong Male Spade Plug	1 Ea (1 ea)	170-External Load - 2 - B4B	
EL314-SJTOW	Long Line Electrical Wire, 14/3 Gauge replace w/t 01004-08-047	6 ft (6 ea)	170-External Load - 2 - B4B	5179682
SWA6A-100	Lower End	1 pcs (1 ea)	170-External Load - 2 - B4B	
SWA6A-1100	Upper Bearing	1 pcs (1 ea)	170-External Load - 2 - B4B	5128642
SWA6A-1200	Lower DU Bearing	1 Ea (1 ea)	170-External Load - 2 - B4B	5175995
SWA6A-1300	Lower Thrust Bearing	1 Ea (1 ea)	170-External Load - 2 - B4B	5176002
SWA6A-1400	Circlip Internal	1 Ea (1 ea)	170-External Load - 2 - B4B	5093403
SWA6A-1800	Cover	1 pcs (1 ea)	170-External Load - 2 - B4B	
SWA6A-1900	1/4" Female Spade Connector	6 Ea (6 ea)	170-External Load - 2 - B4B	5175992
SWA6A-200	Upper End	1 pcs (1 ea)	170-External Load - 2 - B4B	
SWA6A-300	Bearing Housing	1 pcs (1 ea)	170-External Load - 2 - B4B	
SWA6A-400	Thrust Washer	1 pcs (1 ea)	170-External Load - 2 - B4B	5178027
SWA6A-500	Semi Rings	1 pcs (1 ea)	170-External Load - 2 - B4B	
SWA6A-600	Collar	1 pcs (1 ea)	170-External Load - 2 - B4B	
SWA6A-700B	Wire Clamp, 1/2 X 1-3/8 X 1-1/4	2 pcs (2 ea)	170-External Load - 2 - B4B	
SWA6A-800B	Connector Bushing	1 pcs (1 ea)	170-External Load - 2 - B4B	
SWA6A-900B	Rotary Connector - 3 wire	1 Ea (1 ea)	170-External Load - 2 - B4B	5172449

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
110-External Load - 1	SWA6A-3	1	0	0
	188-FPSS-1032-1/2	1	55	0
170-External Load - 2 - B4B	188-FSCS-1032-5/8	4	158	0
	C45-15-13	1	13	0
	EL-PLUG-F	1	19	0
	EL-PLUG-M	1	41	0
	EL314-SJTOW	6	0	0
	SWA6A-100	1	13	0
	SWA6A-1100	1	17	0
	SWA6A-1200	1	9	0
	SWA6A-1300	1	11	0
	SWA6A-1400	1	19	0
	SWA6A-1800	1	20	0
	SWA6A-1900	6	165	0
	SWA6A-200	1	13	0
	SWA6A-300	1	15	0
	SWA6A-400	1	10	0
	SWA6A-500	1	8	0
	SWA6A-600	1	8	0
	SWA6A-700B	2	45	0
	SWA6A-800B	1	11	0
	SWA6A-900B	1	9	0
Part Specifications				
Specifications could not be found.				

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Inspection Sheet Complete

RA657

Customer QA Ref #

0

Part Number	Original Batch / Serial # / Ctrl #	Original Revision #	Quantity	Part Complete	Rev/CHG Current	New Paperwork	New Labels	Disposition	Original Container #	New (Receiving) Serial #	New Job #	Work order instructions
SWA3-3	AC10001		1	☒ Yes	☐ Yes	☐ Yes	☒ Yes	CUSTOMER SUPPLIED		S169996	5169994	Overhaul
SWA6A-3	M16606		1	☒ Yes	☐ Yes	☐ Yes	☒ Yes	CUSTOMER SUPPLIED		S169995	5169996	Overhaul
SWA3-3	M64704		1	☒ Yes	☐ Yes	☐ Yes	☒ Yes	CUSTOMER SUPPLIED		S169994	5169995	Overhaul
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					

QC Approval: _____ 0

Date: 0-Jan-00 _____

Special Return/Rework Instructions:

OH 193313
SN M16606

Pre test

Work Order 193316

Customer RA 657

Number of Wires 3

Date 2019-4-11

Serial Number M16606

Number of Cycles	Load (Lbs.)	Action	Pass/Fail
1	6,000	Check for Conductivity against all wires.	- Fail
1	6,000	Check all wires for grounding against swivel body.	- Fail
1	3,000	Check for Conductivity against all wires.	-
1	3,000	Check all wires for grounding against swivel body.	-
1	1,500	Check for Conductivity against all wires.	-
1	1,500	Check all wires for grounding against swivel body.	-
1	0	Check for Conductivity against all wires.	-
1	0	Check all wires for grounding against swivel body.	-

broken wires

Test Conducted By: Michel Lalonde

Signature: _____
QC 5 Small FAB / QA

Technician

Submit

DATE: 2019/04/15



Overhaul Incoming Inspection

SWIVEL

Customer

OH193316

Date

209/04/15

Part Number

SWAGA-3

Serial Number

M166-06

Additional Recommended Replacement Parts

Part Number to Replace

Customer Approval

(1) SWAGA-900B ROTARY CONTACT

☐☐☐☐☐☐☐☐☐☐☐

Inspected By

ALAIN PATRY



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO043198



Supplier: SKY002-VC
Skyservice
6120 Midfield Road
Mississauga
ON
L5P 1B1 Canada
Phone: 905-678-5636
Fax: 905-678-5841

Attention: Jenne, Heather

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO043198

PO Date: 4/15/19

Due Date: 4/24/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

E-MAILED
APR 15 2019

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	OH193307	SWA3-3-OH	Electric Swivel 3,000 lb Safe Work Load (1,360 kg)	Firmed	-	4/24/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
			magnaflux								
	OH193305		magnaflux	Firmed	-	4/24/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
Sub Total:							2	0	2		\$356.00
2	OH193316	SWA6A-3-OH	Electric Swivel 6,000 lb Safe Work Load (2,721 kg)	Firmed	-	4/24/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
			magnaflux								
Grand Total:											\$534.00

DAS
40
9-89

CL



Dart Aerospace Ltd.
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Canada

Tel (613) 632-5200

PURCHASE ORDER

PO043198



Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 4/15/19 1:17 PM dart.lavoie.chantal

**skyservice****Work Order Traveler**
Sky Service F.B.O. Inc.

10105 Ryan Avenue, Dorval, Quebec, H9P 1A2

TCCA AMO 53-89 / EASA 145.7142 / BDA AMO 385

WO #: MWO40112	Customer: Dart Aerospace Ltd.	Dept: NDT YUL	Reference: PO043198 ✓
Descr:	PN:	S/N:	Qty: 1
Make:	Model:	Reg:	A/C S/N:
TSN:	CSN:	TSO:	
Task: UNSCHEDULED			Sequence: 1

Work Required:**CARRY OUT NDT ON:**

1 ELECTRIC SWIVEL (2 PCS) P/N# SWA3-3-OH , J/S# OH193307 ✓

1 ELECTRIC SWIVEL (2 PCS) P/N# SWA3 , J/S# OH193305 ✓

1 ELECTRIC SWIVEL (6 PCS) P/N SWA6A-3-OH , J/S# OH193316 ✓

DAS
40
9-89

Action Taken:						Date:	Initial/Stamp:
LPI & MPI CARRIED OUT IAW ASTM E-1417M-16 AND ASTM E-1444M-16						APR 29 2019	313 73 DOT-APP 310 53-89 ZV DOT-APP 20 53-89 m
NO CRACK FOUND							
PEN , ZL-37 MPO#: 23206 CLEANER SKC-S MPO15030, EMU.(ZR-10B, MPO23451), DEV. MPO15030, UV LIGHT M-20142							
MAGBENCH S/N 208123 CAL DUE: 25-SEP-2019 POWDER 14A BATCH# MPO13600 CARRIER II BATCH# MPO22794 BLACK LIGHT-M20186							
Description	Location	P/N	Qty	Batch	S/N Off	S/N On	

I certified that the maintenance described above has been performed in accordance with the applicable standard of airworthiness.

Signature:	ACA/SCA Stamp	Date:
Name: RAFIK MELIKIAN	DOT-APP 20 53-89	APR 29 2019

Work Order

193316

Customer

RA 657

Number of Wires

3

Date

2019-5-30

Serial Number

M 16606

Number of Cycles	Load (Lbs.)	Action	Pass/Fail
1	6,000	Check for Conductivity against all wires.	- Pass
1	6,000	Check all wires for grounding against swivel body.	- Pass
1	3,000	Check for Conductivity against all wires.	- Pass
1	3,000	Check all wires for grounding against swivel body.	- Pass
1	1,500	Check for Conductivity against all wires.	- Pass
1	1,500	Check all wires for grounding against swivel body.	- Pass
1	0	Check for Conductivity against all wires.	- Pass
1	0	Check all wires for grounding against swivel body.	- Pass

Test Conducted By:

Michel Lalonde

Signature:

Sylvie Boucher
QC 5 Small FAB / QA

Technician

Submit